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1 The Starfire SMP interconnect

Alan Charlesworth, Nicholas Aneshansley, Mark Haakmeester, Dan Drogichen, Gary Gilbert, Ricki Williams, Andrew Phelps

November 1997   Supercomputing '97: Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)
Publisher: ACM

Full text available: 📄 Pdf (273.52 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 40,   Citation Count: 4

The Starfire interconnect extends the envelope of Unix symmetric multiprocessor (SMP) systems in several dimensions. Interconnect: an active centerplane with four address routers and a 16x16 data crossbar provides 64 UltraSPARC processors with ...

Keywords: SMP, UMA, bandwidth, domains, interconnect, latency, partitions

2 Communications of the ACM: Volume 51 Issue 8

August 2008   Communications of the ACM
Publisher: ACM

Full text available: 📄 Digital Edition , 📄 Pdf (6.85 MB)   Additional Information: full citation

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3 A remotely accessible networking laboratory

Joseph D. Sloan

December 2002 Journal of Computing Sciences in Colleges , Volume 18 Issue 2
Publisher: Consortium for Computing Sciences in Colleges

Full text available: Pdf (39.80 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 44,   Citation Count: 6

This paper describes Lander University's efforts to create a remotely accessible networking and telecommunications laboratory. By supplying remote access, the laboratory provides an authentic laboratory experience, gives greater access to equipment, ...

4 Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories

Kimfong Lei, Phillip T. Rawles

October 2003   CITC4 '03: Proceedings of the 4th conference on Information technology curriculum
Publisher: ACM

Full text available: Pdf (407.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 113,   Citation Count: 1

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

5 New Products

Linux Journal Staff

January 2000   Linux Journal , Volume 2000 Issue 69es
Publisher: Specialized Systems Consultants, Inc.

Full text available: Html (11.11 KB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 6,   Citation Count: 0

6 Security analysis of Internet technology components enabling globally distributed workplaces—a framework

Manish Gupta, Shamik Banerjee, Manish Agrawal, H. Raghav Rao

September 2008   Transactions on Internet Technology (TOIT), Volume 8 Issue 4

Publisher: ACM

Full text available: Pdf (1.60 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 197, Downloads (12 Months): 312, Citation Count: 0

As organizations increasingly operate, compete, and cooperate in a global context, business processes are also becoming global to propagate the benefits from coordination and standardization across geographical boundaries. In this context, security has ...

Keywords: Internet applications, Security analysis, globally distributed workforce, risk management

7 GreenFS: making enterprise computers greener by protecting them better

Nikolai Joukov, Josef Sipek

April 2008   Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: Pdf (289.89 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 305, Citation Count: 0

Hard disks contain data - frequently an irreplaceable asset of high monetary and non-monetary value. At the same time, hard disks are mechanical devices that consume power, are noisy, and fragile when their platters are rotating. In this paper we demonstrate ...

Keywords: backup, continuous data protection, power efficiency

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4

8 A call for the home media network

Gordon Bell, Jim Gemmell

July 2002   Communications of the ACM, Volume 45 Issue 7

Publisher: ACM

Full text available: Html (26.70 KB), Pdf (283.51 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 132, Citation Count: 6

"The best way to predict the future is to invent it."---Alan Kay "...or at least posit a vision for others to build."---The authors

9 Communications of the ACM: Volume 51 Issue 6

June 2008   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (8.89   Additional Information: full citation
MB)

Bibliometrics: Downloads (6 Weeks): 494,   Downloads (12 Months): 1908,   Citation Count: 0

10 Protecting domestic power-line communications

Richard Newman, Sherman Gavette, Larry Yonge, Ross Anderson
July   SOUPS '06: Proceedings of the second symposium on Usable privacy and
2006   security
Publisher: ACM

Full text available: Pdf (135.71   Additional Information: full citation, abstract, references, index
KB)   terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 142,   Citation Count: 0

In this paper we describe the protection goals and mechanisms in HomePlug AV,
a next-generation power-line communications standard. This is a fascinating case-
history in security usability. There are also novel protocol issues; interactions with
mechanisms ...

Keywords: authentication, power-line communication, security

11 Terra: a virtual machine-based platform for trusted computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh
December   SOSP '03: Proceedings of the nineteenth ACM symposium on
2003   Operating systems principles
Publisher: ACM

Full text available: Pdf (140.31   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 64,   Downloads (12 Months): 554,   Citation Count: 66

We present a flexible architecture for trusted computing, called Terra, that allows
applications with a wide range of security requirements to run simultaneously on
commodity hardware. Applications on Terra enjoy the semantics of running on a
separate, ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine,
virtual machine monitor

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

12 Planning, building and operating the information security and assurance laboratory

Herbert J. Mattord, Michael E. Whitman

October 2004 InfoSecCD '04: Proceedings of the 1st annual conference on Information security curriculum development

Publisher: ACM

Full text available: Pdf (85.53 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 93,   Citation Count: 3

With increasing interest by students and faculty in Information Security (InfoSec) Curriculum, and increasing demand for information security professionals from industry, many institutions are beginning the task of creating an information security program. ...

Keywords: curriculum development, curriculum instruction, information assurance, information assurance curriculum, information security, information security curriculum, laboratory development

13 Hardening Web browsers against man-in-the-middle and eavesdropping attacks

Haidong Xia, José Carlos Brustoloni

May 2005 WWW '05: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (770.11 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 54,   Downloads (12 Months): 261,   Citation Count: 4

Existing Web browsers handle security errors in a manner that often confuses users. In particular, when a user visits a secure site whose certificate the browser cannot verify, the browser typically allows the user to view and install the certificate ...

Keywords: HTTPS, SSL, Web browser, certificate, eavesdropping attack, just-in-time instruction, man-in-the-middle attack, password, safe staging, well-in-advance instruction

14 A team teaching approach to inclusion of a security component in IS and CS curricula

James Harris, Maeve Cummings, Felix Dreher, Kailash Chandra

April 2004 Journal of Computing Sciences in Colleges , Volume 19 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: Pdf (56.22 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 54,   Citation Count: 0

Issues related to computer security and information assurance are important to everyone who uses information technology and these issues will have a substantial impact on the careers of students pursuing degrees in computer science and information systems. ...

15 Using Linux at SSC/Linux Journal

Kevin Pierce

December 1995   Linux Journal , Volume 1995 Issue 20es
Publisher: Specialized Systems Consultants, Inc.
Full text available: Html (21.99 KB)   Additional Information: full citation, abstract, index terms
Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 11,   Citation Count: 0

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